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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,911	12/26/2001	Dong Jae You	8733.543.00	7511
30827 7	590 02/06/2006		EXAMINER	
MCKENNA LONG & ALDRIDGE LLP			DONG, DALEI	
1900 K STREE WASHINGTO	N, DC 20006		ART UNIT PAPER NUMBER	
	•		2879	
			DATE MAILED: 02/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/025,911	YOU, DONG JAE	(UM)			
Office Action Summary	Examiner	Art Unit				
	Dalei Dong	2879				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address	;			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tin  rill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	N. nety filed the mailing date of this commun D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 No	ovember 2005.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the mer	its is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1,2,4-6 and 18 is/are pending in the a	pplication.					
4a) Of the above claim(s) is/are withdray	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-6 and 18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>26 December 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-15	52.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	)-(d) or (f).				
a)⊠ All b)⊡ Some * c)⊡ None of:						
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.					
2. Certified copies of the priority documents						
3. Copies of the certified copies of the prior		ed in this National Stag	е			
application from the International Bureau	• • •					
*See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal F	Patent Application (PTO-152)				
Paper No(s)/Mail Date	6)  Other:					

### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 21, 2005 has been entered.

## Claim Objections

2. Claims 1, 2, 4-6 and 18 are objected to because of the following informalities:

Regarding to claim 1, the Applicant claims "the connector," this should be changed to "the L-shaped connector". Appropriate correction is required.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2879

4. Claims 1, 2, 4 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,752,241 to Matsuoka of record in view of U.S. Patent No. 4,680,505 to Funada of record.

Regarding to claim 1, Matsuoka discloses in Figures 1-4, a lamp apparatus comprising: a lamp (2) comprising an electrode; a wire (3) to deliver the external voltage; and an L-shaped connector (5) for electrically connecting the electrode of the lamp (2) to the wire (3), the L-shaped connector (5) directly contacting the electrode of the lamp and a portion of the wire (3), wherein the L-shaped connector includes: a first cured wing (5a) for directly contacting the electrode of the lamp; and a second curve (5b) for directly contacting a portion of the wire (3).

However, Matsuoka does not disclose the lamp capable of using a discharge to generate light for the liquid crystal display.

The Examiner asserts that the discharge lamp used for liquid crystal display is old and well known in the art as taught by the Funada reference. The Funada reference teaches, in Figures 1-3, a lamp capable of using a discharge of an external voltage applied to an electrode (2) of the lamp to generate light for the liquid crystal display (see column 5, lines 17-20) for the purpose of improving the discharge lamp with high luminous efficiency.

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilize the discharge lamp utilized for liquid crystal display of Funada for the lamp apparatus of Matsuoka in order to improve the discharge lamp with high luminous efficiency.

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Regarding to claim 2, Matsuoka discloses in Figures 1-4, a unifying means (1) for integrally forming the power terminal of the lamp and the wire (3) electrically connected to each other via the connector (5).

Regarding to claim 4, Trautner discloses, the unifying means (1) is a molded product (see column 2, lines 14-19) for unifying an end of the lamp (2), the electrode of the lamp, the connector (5) and the wire (3).

Regarding to claim 18, the limitation of "injection-molded product is molded around the lamp and the wire" is a method of forming a device and is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,752,241 to Matsuoka of record in view of U.S. Patent No. 4,680,505 to Funada of record and in further view of U.S. Patent No. 2,988,725 to Vallee of record.

Regarding to claim 5, Matsuoka in view of Funada discloses, a lamp apparatus comprising: a lamp (2) capable of using a discharge of an external voltage applied to an electrode of the lamp to generate light for the liquid crystal display; a wire (3) to deliver the external voltage; and an L-shaped connector (5) for electrically connecting the electrode of the lamp (2) to the wire (3), the L-shaped connector (5) directly contacting the electrode of the lamp and a portion of the wire (3), wherein the L-shaped connector

includes: a first cured wing (5a) for directly contacting the electrode of the lamp; and a second curve (5b) for directly contacting a portion of the wire (3).

However, Matsuoka and Funada does not disclose a material of the injection molded product is selected from any one of the group comprising plastic and silicon.

Vallee teaches in Figures 1 and 2, a lamp apparatus comprising: a material for molded product (8) is selected from any one of the group comprising plastic and silicon (see column 2, lines 57-63) for the purpose of simplifying and facilitating the manufacturing process.

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilize the discharge lamp utilized for liquid crystal display of Funada and the material of Vallee for the lamp apparatus of Matsuoka in order to improve the discharge lamp with high luminous efficiency and simplify and facilitate the manufacturing process.

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,752,241 to Matsuoka of record in view of U.S. Patent No. 4,680,505 to Funada of record and in further view of U.S. Patent No. 5,035,655 to Hesse.

Regarding to claim 6, Matsuoka in view of Funada discloses, a lamp apparatus comprising: a lamp (2) capable of using a discharge of an external voltage applied to an electrode of the lamp to generate light for the liquid crystal display; a wire (3) to deliver the external voltage; and an L-shaped connector (5) for electrically connecting the electrode of the lamp (2) to the wire (3), the L-shaped connector (5) directly contacting

the electrode of the lamp and a portion of the wire (3), wherein the L-shaped connector includes: a first cured wing (5a) for directly contacting the electrode of the lamp; and a second curve (5b) for directly contacting a portion of the wire (3), and wherein the first curved wing (5a) is at least partially surrounding the electrode of the lamp.

However, Matsuoka and Funada does not disclose the second curved wing is at least partially surrounding the portion of the wire.

Hesse teaches in Figures 1-4, a lamp apparatus comprising: the second curved wing (30) is at least partially surrounding the portion of the wire (12 and 13) for the purpose of improving the receptacle assembly.

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilize the discharge lamp utilized for liquid crystal display of Funada and the second curve portion of Hesse for the lamp apparatus of Matsuoka in order to improve the discharge lamp with high luminous efficiency and improve the receptacle assembly.

## Response to Arguments

7. Applicant's arguments with respect to claims 1, 2, 4-6 and 18 have been considered but are most in view of the new ground(s) of rejection.

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#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following prior art are cited to further show the state of the art of composition of a lighting apparatus.

U.S. Patent No. 5,509,828 to Muta.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D.D.

January 26, 2006

Joseph Williams Primary Examiner Art Unit 2879

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